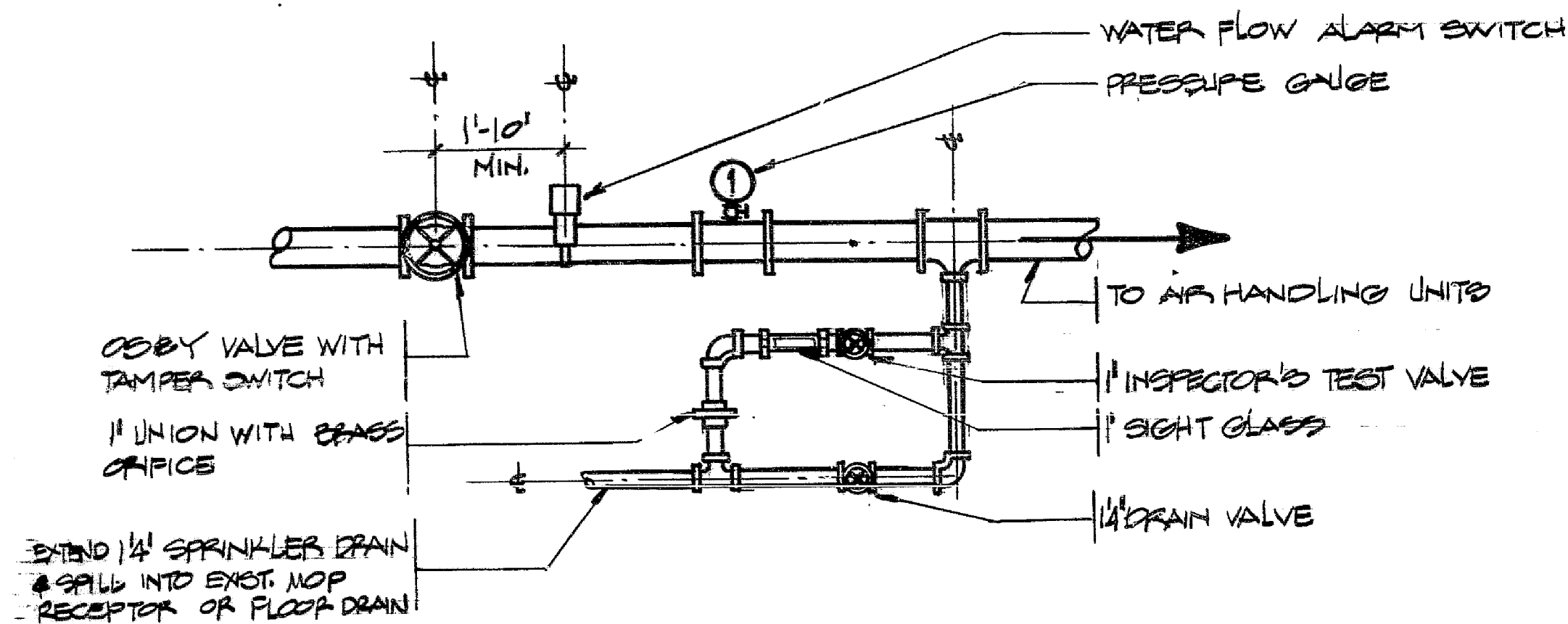


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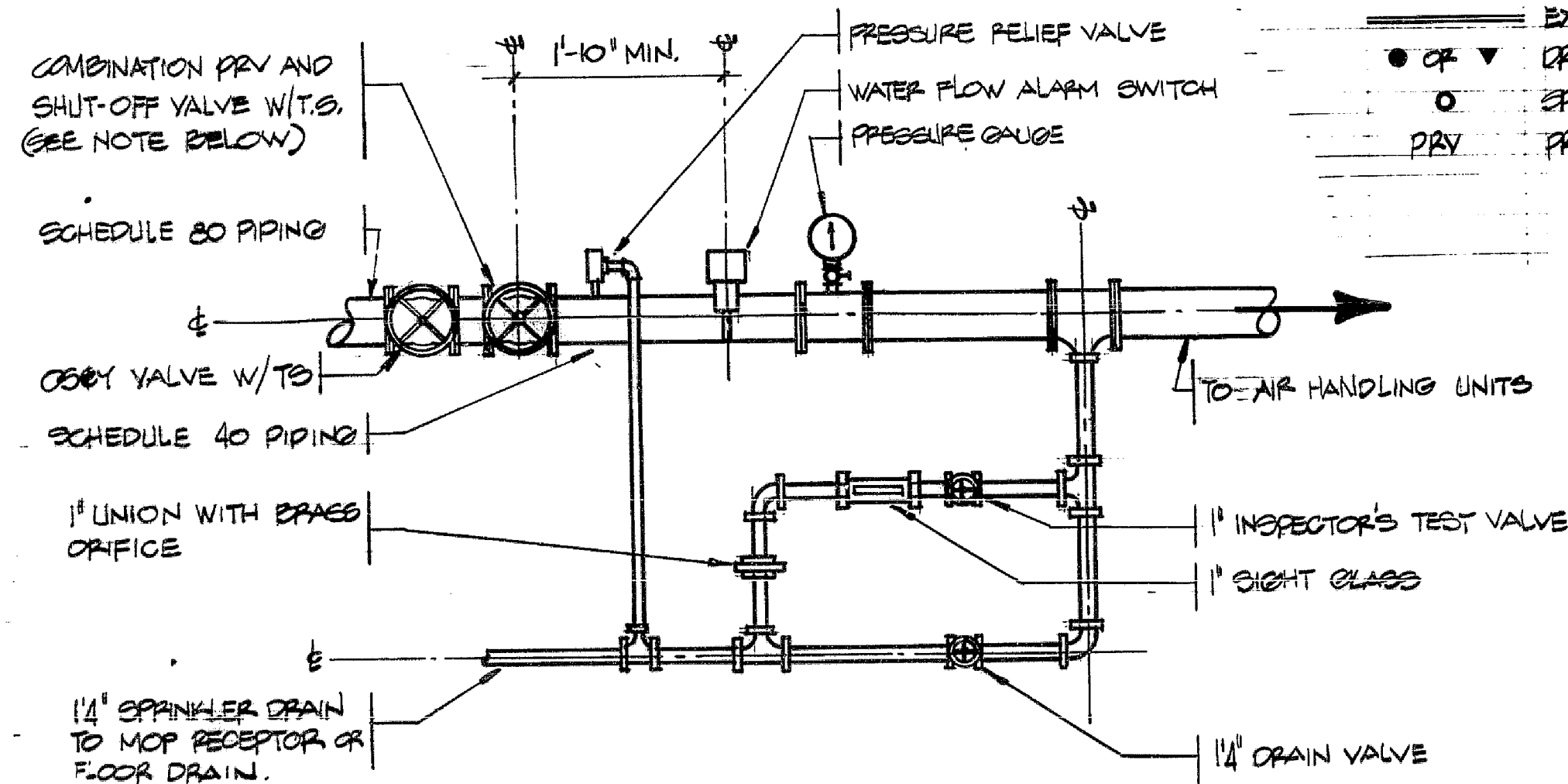
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DETAIL OF FLOOR CONTROL VALVE ASSEMBLY

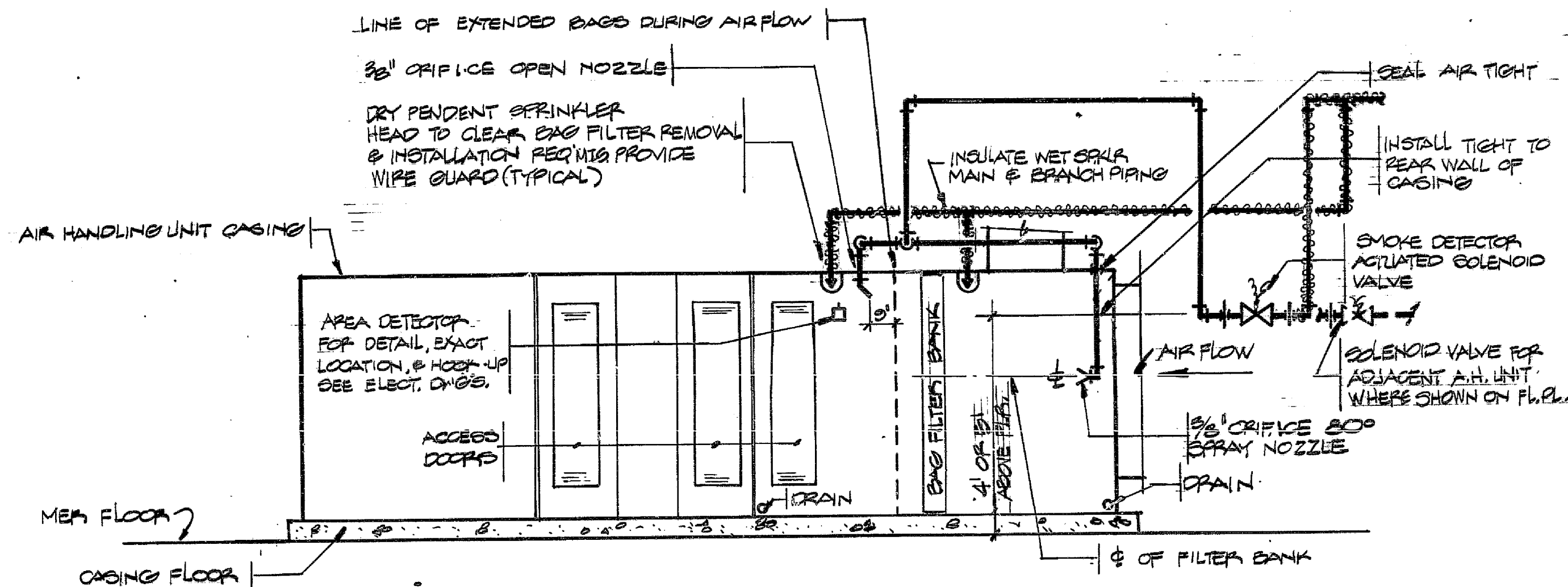
FOR 103RD FLOOR ONLY
NOT TO SCALE



DETAIL OF FLOOR CONTROL VALVE ASSEMBLY

FOR 7TH, 41ST, & 75TH FLOORS
NOT TO SCALE

NOTE:
COMBINATION PRESSURE REDUCING VALVE AND SHUT-OFF VALVE TO BE SET AT A NO FLOW OUTLET PRESSURE OF 125 PSI. THE RESIDUAL PRESSURE AT THE OUTLET WILL VARY WITH THE TOTAL QUANTITY OF WATER CALCULATED TO FLOW THRU THE VALVE. THE AVAILABLE RESIDUAL PRESSURE MUST BE EQUAL OR EXCEED THE PRESSURE REQUIRED TO DELIVER THE CALCULATED QUANTITY OF WATER.



TYPICAL SCHEMATIC OF SPRINKLER PIPING AND HEADS FOR A.H. UNIT FILTERS

NOT TO SCALE

GENERAL NOTES

1. EACH AIR HANDLING UNIT SHALL HAVE OPEN SPRINKLERS ON BOTH SIDES OF THE FILTER BANK. THE PIPING TO THE OPEN HEADS WILL BE AN EMPTY PIPE BRANCH LINE SUPPLIED THROUGH A SMOKE DETECTOR ACTUATED SOLENOID VALVE. IN ADDITION TO THE OPEN HEADS, DRY PENDANT HEADS WITH FUSIBLE LINKS SHALL BE INSTALLED ON EACH SIDE OF THE FILTER BANK TAKING THEIR SUPPLY FROM THE WET SYSTEM. COORDINATE LOCATION OF PIPING TO CLEAR EXISTING EQUIPMENT, ACCESS DOORS, ETC.

2. ALL WET SPRINKLER PIPING THROUGH OUT MER IS TO BE INSULATED TO RELIEVE AT 170 P.S.I.

SCHEDULE OF MATERIALS

1. PIPE AND FITTINGS:

SYSTEM	PIPE	FITTINGS
SPRINKLER	BLACK STEEL, SCH. 40 CONFORMING TO ASTM A-120/53	CAST IRON, THREADED 125 LB. CLASS, CONFORMING TO ANSI B16.4 MALLEABLE IRON, THREADED, 150 LB. CLASS, CONFORMING TO ANSI B16.3 COMPANION FLANGES, CAST IRON, STANDARD 125 LB. CLASS, CONFORMING TO ANSI B16.1

2. VALVES:

a. GATE VALVES:

- IRON BODY - FLANGED ENDS - JENKINS BROS. CO. FIG. NO. 825-A-OS&Y SYSTEM CONTROL VALVE.
- IRON BODY - THREADED ENDS NON-RISING STEM JENKINS BROS. FIG. NO. 370-200 LB. W.W.P. FLOOR SYSTEM DRAIN AND TEST VALVE.

b. SOLENOID VALVE:

- SOLENOID VALVE - NORMALLY CLOSED 2 WAY, U.L. LISTED, AUTOMATIC SWITCH CO. SERIES 8210 "GENERAL PURPOSE". VALVE SHALL BE ENERGIZED BY ACTIVATION OF SMOKE DETECTORS. VALVE SHALL HAVE BRASS BODY WITH TEFLON SEAT. THE COIL INSULATION SHALL BE HIGH TEMPERATURE, CLASS "H" INSULATION. THE ELECTRICAL RATINGS SHALL BE COMPARABLE WITH THE SMOKE DETECTOR SYSTEM. PROVIDE FIVE (5) BRASS SOLENOID VALVES TO THE ENGINEER.

c. FLOOR SYSTEM COMBINATION CONTROL AND PRESSURE VALVE SHALL BE SIMILAR IN ALL RESPECTS TO "REG-U-MATIC" PRV-400-2.5 - AUTOMATIC BALANCED PISTON - 400 LB. W.W.P. AS MANUFACTURED BY POTTER-BORNER INC. THE METAL PLATE PERMANENTLY AFFIXED TO VALVE WITH MANUFACTURER'S PERTINENT INFORMATION SHALL ALSO HAVE STAMPED THEREON THE PRESSURE SETTING (INLET AND OUTLET).

d. PRESSURE RELIEF VALVE SHALL BE SIMILAR IN ALL RESPECTS TO FIG. NO. 53 AS MANUFACTURED BY WATTS REGULATING CO. SET

Sheet 30 Of 30

THE PORT AUTHORITY
OF NY & NJ

ENGINEER OF DESIGN (EOD, PORTS, WTC)
CHIEF MECHANICAL ENGINEER

Engineering Department
Design Divisions

World Trade
Center

TOWER M.E.R.'S
SPRINKLER INSTALLATION
AND MODIFICATION
TO SMOKE DETECTION
SYSTEM

DETAILS, NOTES, LEGEND

No. Date Revision Approved

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

VP VP HM

Designed by Drawn by Task Leader

CHECKED BY W4

Date 5-16-90 Scale AS NOTED

Contract Number Drawing Number

WTC 499.18 SP-5